GEOMETRY Name _____

Period _____ Date _____

Unit 6 REMEDIATION PACKET

You will need to show this completed and corrected packet to your teacher in order to retake the test. Please get help where you need it!

Tutor Signature: _____

TARGET A

For #1 – 4, simplify the ratio. Be sure to check your units before you simplify!

1) $\frac{3qt}{16cups}$ **2)** $\frac{8in}{2yds}$ **3)** $\frac{40min}{1day}$ **4)** $\frac{20m}{2km}$

For #5 – 8, perform the indicated unit conversion.

5) 330 ft to mi **6)** 325 cm to m **7)** 32 oz to lb **8)** 2 gal to pt

9) Out of 300 students, 120 are taking Biology. What is the ratio of students taking Biology to all students? What is the ratio of students taking Biology to students NOT taking Biology?

10) The ratio of the angles in a triangle is 3:4:2. Find the measure of each of the angles.

TARGET B

For #11-15, solve each proportion. Round decimals to the nearest hundreths place.

11) $\frac{2x+1}{7} = \frac{4}{5}$ **12)** $\frac{2}{x-3} = \frac{4}{4x}$ **13)** $\frac{x}{3} = \frac{5-x}{2}$

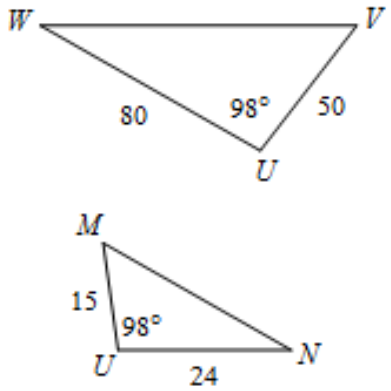
14) A photograph is 4 inches wide and 6 inches long. The photo is enlarged to a width of 10 inches. What is the length of the enlargement?

15) One Euro is currently worth $1.36. How many Euros would you have if you exchange $10?

TARGET C

For #16-17, write the similarity statement and find the scale factor.

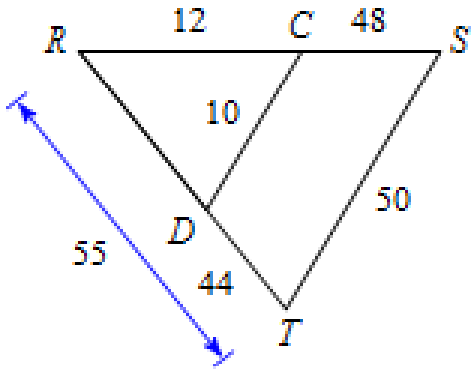
16)



$\Delta UVW \sim$ _____

scale factor_____

17)



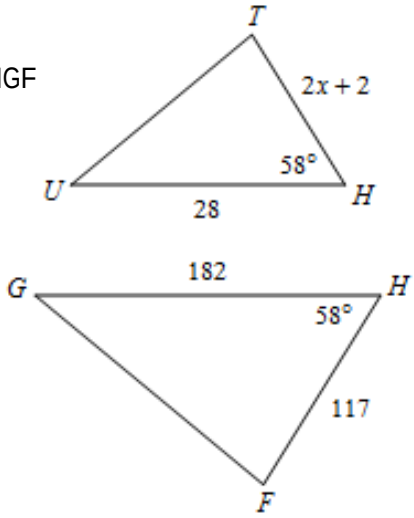
$\Delta RST \sim$ _____

scale factor_____

TARGET D & F

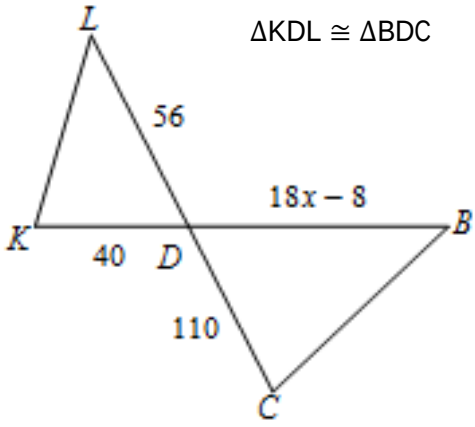
For #18 - 22, solve for x or the missing side for the similar triangles.

18) ΔHUT ≅ ΔHGF



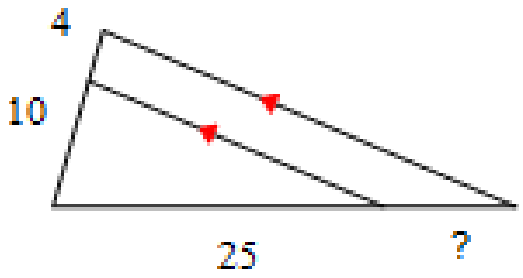
x = _____

19) ΔKDL ≅ ΔBDC



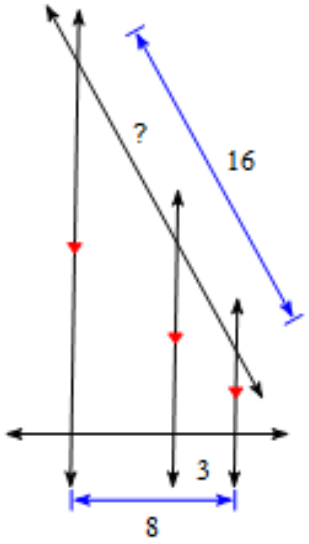
x = _____

20)



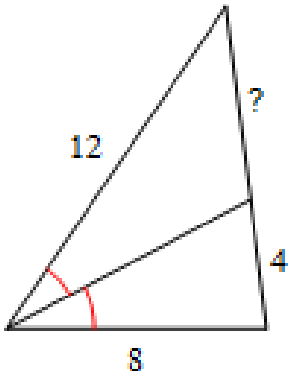
? = _____

21)



? = _____

22)

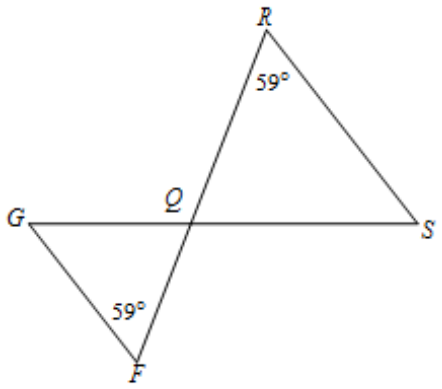


? = _____

TARGET E

For #23-28 , decide what method (AA~, SSS~ or SAS~) you can use to prove the triangles are similar. Then complete the similarity statement.

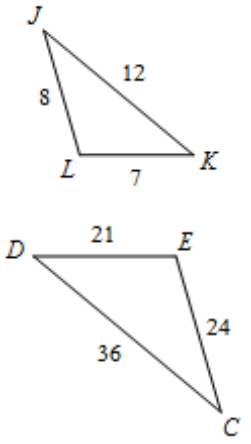
23)



$\Delta QRS \sim$ _____

AA~ SSS~ SAS~

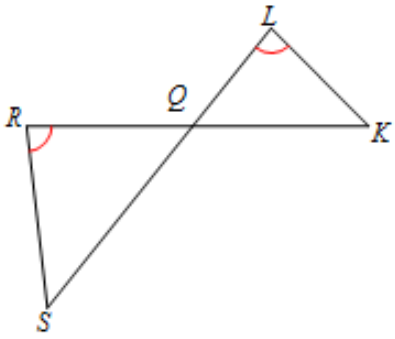
24)



$\Delta CDE \sim$ _____

AA~ SSS~ SAS~

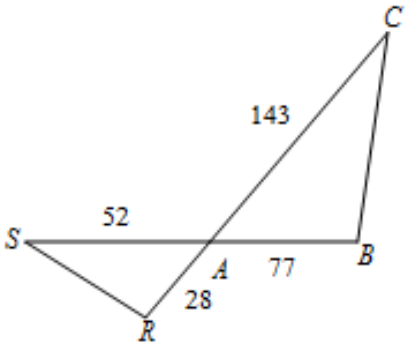
25)



$\Delta QRS \sim$ _____

AA~ SSS~ SAS~

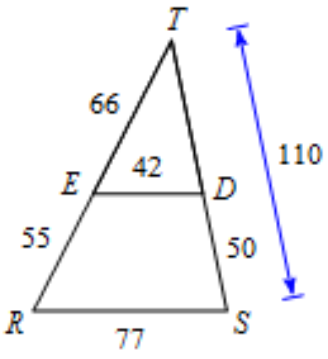
26)



$\Delta ABC \sim$ _____

AA~ SSS~ SAS~

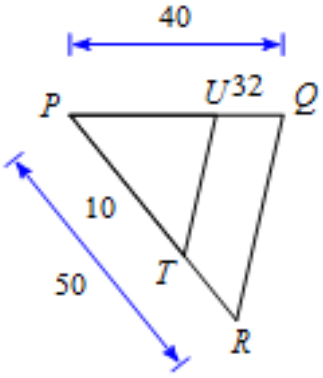
27)



$\Delta TSR \sim$ _____

AA~ SSS~ SAS~

28)



$\Delta PQR \sim$ _____

AA~ SSS~ SAS~